A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G1187/125 G11B20/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC  $\,7\,$  G118

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

## EPO-Internal, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
X	EP 1 182 651 A (RICOH COMPANY, LTD) 27 February 2002 (2002-02-27)	1-6
	paragraph '0002! - paragraph '0019! paragraph '0082! - paragraph '0118!	
	paragraph '0148! - paragraph '0217!	
x	US 2002/024903 A1 (SATO SHINICHI) 28 February 2002 (2002-02-28)	1-6
	paragraph '0001! - paragraph '0014!	
	paragraph '0048! - paragraph '0066!	
	paragraph '0074! - paragraph '0080! paragraph '0088! - paragraph '0096!	
x	US 2003/086346 A1 (FUKUMOTO MAKOTO) 8 May 2003 (2003-05-08)	1,3
Α	paragraph '0001! — paragraph '0010! paragraph '0026! — paragraph '0047!	2,4-6

X Further documents are fisted in the continuation of box C.	Patent family members are listed in annex.
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search	Date of mailing of the international search report
6 April 2005	04/05/2005
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Skaropoulos, N

Form PCT/ISA/210 (second sheet) (January 2004)

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 5 835 462 A (MIMNAGH ET AL) 5,6 10 November 1998 (1998-11-10) the whole document 1-4 Α EP 0 642 128 A (PIONEER ELECTRONIC 1,3 X CORPORATION; PIONEER VIDEO CORPORATION) 8 March 1995 (1995-03-08) 2,4-6the whole document Α PATENT ABSTRACTS OF JAPAN 1-4 X vol. 2003, no. 07, 3 July 2003 (2003-07-03) -& JP 2003 085761 A (RICOH CO LTD), 20 March 2003 (2003-03-20) the whole document Α 5,6